SECTION 6: Drive Mechanism & Declutching Device

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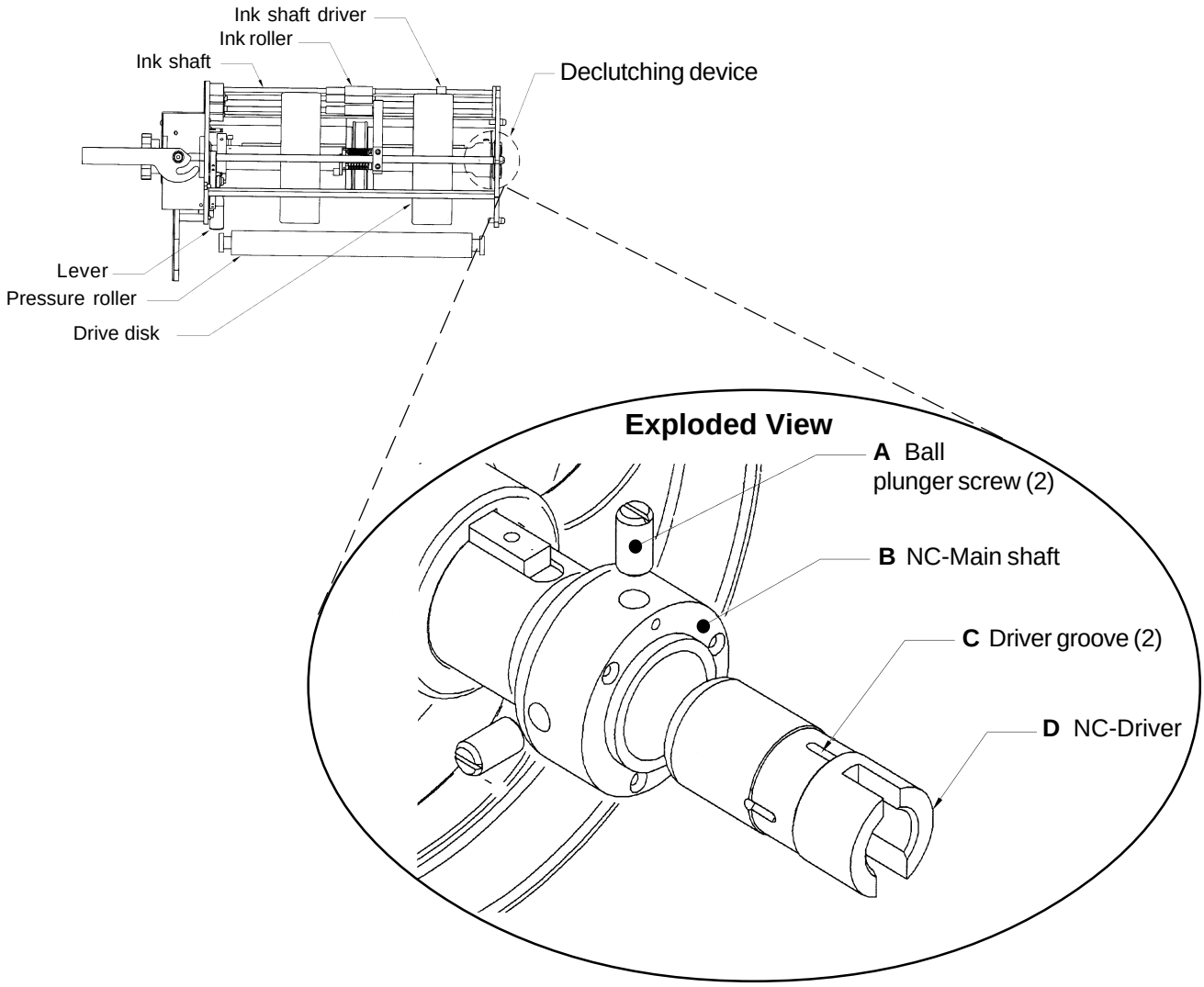
Drive Mechanism & Declutching Device

1. System Overview

The Declutching device is a safety feature that allows the drive mechanism to break free in the event of a bind. It should be adjusted so that the driver breaks free before the Main Motor or a PCB burn out, but not so loosely that it breaks free unnecessarily.



A Ball plunger screw (2): These set screws can be adjusted to control clutch slippage. The tighter you set them, the harder it will be for the drive to break free.

B Main shaft: Transfers the rotation from the Driver to the Drive disks and the Head holder ring. If the Main shaft freezes for some reason, the slip clutch should break free so no damage occurs.

C Driver groove (2): The ends of the Ball plunger screws rest in these grooves.

D NC-Driver: Transfers rotation from the Risograph to the Ball plunger screws and Main shaft.